

Title (en)
Augmented mobile platform localization

Title (de)
Erweiterte mobile Plattformlokalisierung

Title (fr)
Localisation de plateforme mobile augmentée

Publication
EP 2752725 B1 20190424 (EN)

Application
EP 13194407 A 20131126

Priority
US 201313734707 A 20130104

Abstract (en)
[origin: EP2752725A2] A system includes a transformation module (402), alignment module (406) and aligned localization module (408). The transformation module (402) is configured to receive first and second pose estimates (502, 602) of a mobile vehicle (102) movable within an environment. The first and second pose estimates (502, 602) are relative to different, respective first and second digital maps (500, 600) of the environment in different, respective first and second coordinate systems. The transformation module (402), then, may be configured to calculate a geometric transform between the first and second digital maps (500, 600) based on the first and second pose estimates (502, 602). The alignment module (406) may be configured to align the first and second digital maps (500, 600) based on the geometric transform, and thereby generate an aligned digital map. And the aligned localization module (408) may be configured to localize the mobile vehicle (102) relative to the aligned digital map, and thereby calculate an aligned pose estimate of the mobile vehicle (102).

IPC 8 full level
G05D 1/02 (2006.01); **G01C 21/00** (2006.01)

CPC (source: CN EP US)
G01C 21/00 (2013.01 - CN); **G01C 21/005** (2013.01 - US); **G05D 1/0274** (2024.01 - EP US); **G05D 1/0282** (2024.01 - EP US);
G05D 1/024 (2024.01 - EP US); **G05D 1/027** (2024.01 - US); **G05D 1/0272** (2024.01 - EP US)

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